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# Grid Leaks

NOVEMBER 1970 VOL. XI NO. 11

## SWAP & SHOP

IT HAS BEEN ANNOUNCED BY TERRY BARENKO K8RUR OUR SWAP AND SHOP COMMITTEE CHAIRMAN THAT THE HVARA ANNUAL SWAP AND SHOP WILL BE HELD ON SUNDAY MARCH 7th 1971 AT THE PIONEER HIGH SCHOOL ON STADIUM BLVD. JUST WEST OF STATE STREET IN ANN ARBOR MICHIGAN. ACTIVITIES WILL BE FROM 900 TO 1600 INCLUDING AN AUCTION, FOOD, PRIZES. BE SURE TO WATCH THIS SPACE FOR MORE INFORMATION, AND WHERE TO GET TICKETS ETC. MIKE DeFRANCISCO WB8BOI IS IN CHARGE OF PUBLICITY. THOSE INTERESTED IN HELPING OR ATTENDING SHOULD CONTACT TERRY AT 46859 ECORSE RD. BELLEVILLE, MICH, OR MIKE AT 1958 BURNS, YPSILANTI, MICHIGAN

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### NEW MEMBERS AND GUESTS

At the October 2nd meeting of the HVARA we were with joy and jubilation, informed of application by W5MBC/8 Jim Reynolds of Ann Arbor for membership. Immediate action was undertaken and Jim was voted in as a new member. Also gracing our presence were several guests, among whom were: Tom McEvry WA8DVB Adrain, Paul Trouten WA8RRT Monroe, Dale Williams WA8EPK Dundee, Jean Syler nc Belleville, Edward Drysage WA8SSV Garden City, Al Boehlelein W8BEZ and his two harmonics Robert and Dorothy, Don. C. Gooding WN8FGZ Ypsilanti, Leo Carnevale nc Ann Arbor, and Robert C. Anderson W8KZM of Saline.

Jim Reynolds can be found most often checking into the Louisiana net on 75 mtrs using an 8' vertical antenna in his apartment.

### IN THIS ISSUE:

another scorching editorial.....some moot problems from the grand gentlemen, the professor  
.....the electronic house quiz.....news and such.....assorted graffiti and other goodies?

OUR NEXT GET TOGETHER WILL BE ON NOVEMBER SIXTH AT EIGHT PM AT THE RED CROSS BUILDING AT 2729 PACKARD ROAD ANN ARBOR, MICHIGAN. EVERYBODY IS INVITED TO ATTEND.

THIS MONTHS PROGRAM WILL BE A DETAILED EXPLANATION OF THE VASCEP SYSTEM USED BY THE STATE POLICE. OUR SPECIAL GUEST WILL BE TROOPER ROGER KIRKPATRICK OF THE YPSILANTI POST OF THE MICHIGAN STATE POLICE.



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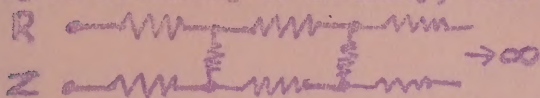
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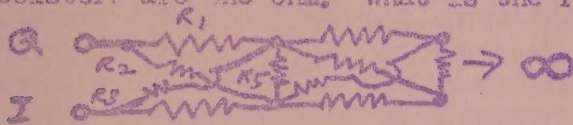




1. Imagine a ladder arrangement of resistors a value of one ohm each arranged as in this diagram extending to infinity, what is the resistance between points R and Z ?



2. With some slight rearrangement of the resistors, picture the network below, again all resistors are one ohm. What is the resistance between Q and I ? Why ?



#3. You are locked in a magnetically shielded room. You have two identically looking bars, one marked M the other marked W. You are told that one is a magnet, the other is just a bar of soft iron. Can you tell which is the magnet and which is not?

DO YOU KNOW WHERE THE FOLLOWING ARE FOUND IN ELECTRONICS, EVEN THOUGH THEY HAVE HOMEY NAMES?

FRONT PORCH

BACK PORCH

BREEZEWAY

STAIRSTEP

RAMP

DOG HOUSE (two places)

CHOPPER

PEDESTAL

WINDOW

DOORKNOB

answers on next page.

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This space was reserved for something someone wanted to say, but failed to send in.  
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#### EDITORIAL

A personal point of view from W8SHEE

An Easy Lesson on How to Defeat Yourself and Your Club

It seems that while many amateur operators bemoan the fact that the CB'ers have in many instances moved into what was the exclusive area of hams, that of public service, many of the same amateurs become very lethargic when the time comes when they are asked to participate or volunteer to help with various community activities, ergo. Boy Scout canoe trips and races, parades, Halloween patrol, etc. The CB'ers on the other hand, despite their faults (we aren't perfect either) are active to the point of saturation, with several growing groups (REACT, ALERT) and an over abundance of mobile and portable gear. On the other side is the amateur who has thousands of dollars in world hopping kilowatts, towers and antennas that make WWV look like a cab dispatch shack, and accessories enough to start a store, plus what has been stashed in the attic or basement for the past six years gathering dust, but a look into the driveway reveals nothing but a car with call letter plates. No antennas, no rigs, no goodies, just the family chariot.

It would seem that if amateur radio operators wish to more fully participate in the activities of their community, to place the club name in front of the public eye, to improve their public image, to increase interest in ham radio, to interest new members in our fraternity, to in general spark some life into the veins of the amateur ranks, it would behoove us to improve our rolling stock. This will take a king-size effort.

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Many mobile installations need not be elaborate. A single VHF rig in many instances would be sufficient. Since our club has a two meter rig in the shack, it would be most indigenous for those licensed to operate on two to invest \$50 to \$150 in a small mobile rig. Surely with the thousands invested in medium wave gear, we could expend a little for this worthwhile enterprise.

Amateur radio seems to lack a certain quality of spontaneity. There seems to be a general lack of young men in our ranks. Personal observation shows that the bulk of amateurs are either under 21 or over 45. The CB ranks though, are bulging with alert able-bodies who I'm sure, with the proper guidance and instruction from the hams, would and could become a valuable asset of new A-1 operators. I know of several highly active hams who came from the ranks of CB. In the interest, in a growing and improved rank and file amateur fraternity, I believe that we should refrain from continuous degradation of the other radio services, despite any real or imaginary prejudices, and actively solicit and encourage capable operators from other fields of communications to join the ranks of amateur radio.

Additionally, it would be advantageous to contact commercial engineers of radio/TV stations, who generally have a high degree of engineering prowess. These engineers generally only lack the opportunity or incentive to learn the code, which is generally the only "hang-up" as they already know enough of the technical side to pass most amateur exams. (my problem)

All this leads up to my final query; what have we done to entice other people into ham radio? What have we to do to improve our viability to serve in the public interest convenience and necessity? Its time to get up from our desks and into the field, and recruit.

Henry B. Ruh WN8HEE editor

equal space will be afforded responsible individuals who have a differing point of view.

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ANSWERS to the Professor: 2. 2.73 ohms. If you compute the resistance of each network, and then the resistance of the next network in parallel etc, you will notice that the total resistance keeps reducing by a smaller and smaller amount towards zero, but never reaching it.

2. The junctions of R1, R2, R3, R4 are equipotential. Resistor R5 has no current through it (its in the middle of a bridge circuit with a potential on each end which diminishes to zero in the center, thus no current flow. Resistor R5 could be replaced by any value including a short. The remainder of the network is in parallel with R5 and also has no effective value, so, remembering from last month, the entire bridge network comes out to a grand total of 1 ohm.

3. Place one end of bar M at the center of bar W. Slide the end of bar M to either end of bar W. If the magnetic pull between the bars increases bar W is the magnet, if the pull remains the same, bar M is the magnet.

Front porch, back porch, breezeway, pedestal refer to various portions of a video (TV) signal as shown in the diagram. Window is a test signal consisting of a white square in a black field. Chopper is a device which during the vertical interval of the TV signal provides a zero signal (white white) reference. A dog house is a small shack in which is housed the AM tower current meter and switch, as well as any phasing network necessary. It is also used in reference to the area on a vector scope where a specific color bar test signal should fall for proper phase (color) and saturation. Stairstep is a multiple gray scale picture, running from black to white and looks like a set of stairs on a waveform scope. Doorknob, is a type of capacitor used in the HV section of TV and transmitters. Ramp, is a sawtooth test signal running from black to white in an even uniform rate of transition giving a black, gray, white shading on a TV screen. Diagram next page













# WANT ADS

FOR SALE: HEATH DX-60 xmitter 90 watts (can be cut to 75 watts for novice) only year and  $\frac{1}{2}$  old very good condition. desire cash but will trade for equal value equipment. HAROLD ZALD WB8DAA 1912 Dunmore, Ann Arbor 663-6940

WANTED: 2 meter am XCVR Call persistantly if you have one to sell Hack WA8OPC 482-0438

## NEW QTH

Frank J. Maynard, now reposing among the ivy and studious souls of college. His temporary QTH is 232 Abbot Hall, East Lansing. Frank's call is WB8AEV should he be trying to communicate with the outside world.

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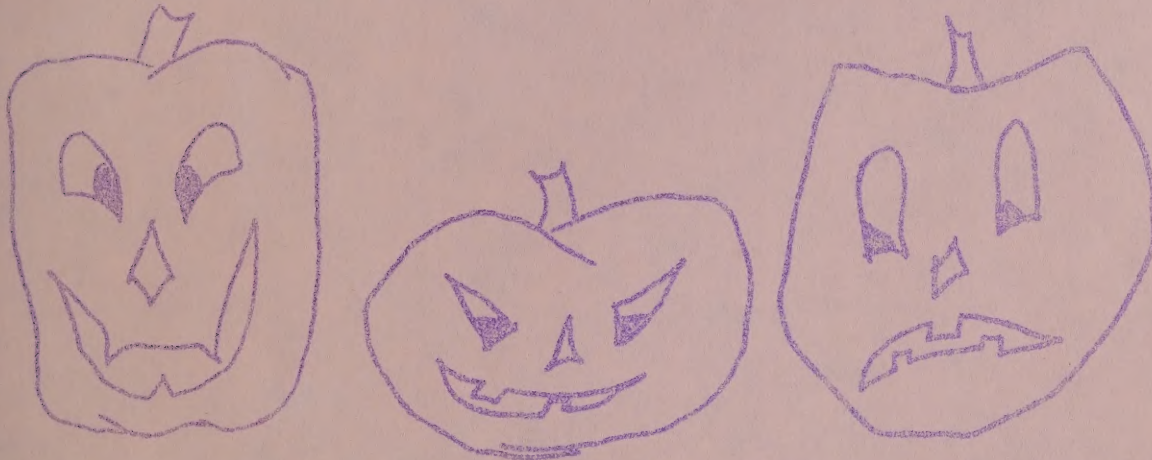
## NET ACTIVITIES

TUESDAYS Wayne Co. 2 meter AREC Net 2000 EST 145.35 NCS WA8SSV Ed. Dryovage alt. WA8UJZ Lon Cork

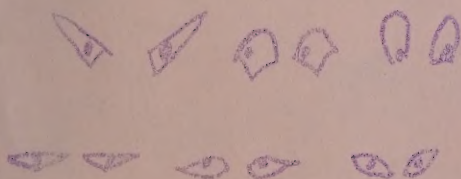
WEDNESDAYS 6 meter net 2100 EST 50.4 NCS K8SKZ Stan West. Alt K8WTH Sam Stearn

THURSDAYS Wash. Co. AREC 2 meter net 1900 EST 145.26 NCS K8RUR Terry Babenko 2 meter net 2000 EST 145.5 NCS WA8MJT Mel Michaels Alt. WA8BKS Virg Joseph.

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LATER THIS MONTH, WATCH FOR A NIGHT ATTACK ON AIR POLLUTION...A LOT OF LITTLE OLD LADIES FLYING AROUND THE SKY WITH BROOMS.



Happy Great  
Punkin' Day!



CHEER UP BETTER DAYS ARE COMING. THEY'RE CALLED SATURDAY AND SUNDAY



